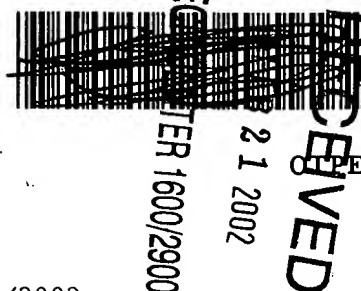


1600  
1645



## RAW SEQUENCE LISTING

DATE: 01/16/2002

PATENT APPLICATION: US/09/903,640

TIME: 15:56:08

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1 <110> APPLICANT: Genentech, Inc.  
 2 Ashkenazi, Avi  
 3 Botstein, David  
 4 Desnoyers, Luc  
 5 Eaton, Dan L.  
 6 Ferrara, Napoleone  
 7 Filvaroff, Ellen  
 8 Fong, Sherman  
 9 Gao, Wei-Qiang  
 10 Gerber, Hanspeter  
 11 Gerritsen, Mary E.  
 12 Goddard, A.  
 13 Godowski, Paul J.  
 14 Grimaldi, Christopher J.  
 15 Gurney, Austin L.  
 16 Hillan, Kenneth, J.  
 17 Kljavin, Ivar J.  
 18 Mather, Jennie P.  
 19 Pan, James  
 20 Paoni, Nicholas F.  
 21 Roy, Margaret Ann  
 22 Stewart, Timothy A.  
 23 Tumas, Daniel  
 24 Williams, P. Mickey  
 25 Wood, William, I.  
 26 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 27 Acids Encoding the Same  
 28 <130> FILE REFERENCE: 10466-14  
 29 <140> CURRENT APPLICATION NUMBER: US/09/903,640  
 C--> 30 <141> CURRENT FILING DATE: 2001-07-11  
 32 <150> PRIOR APPLICATION NUMBER: 09/665,350  
 33 <151> PRIOR FILING DATE: 2000-09-18  
 35 <160> NUMBER OF SEQ ID NOS: 423  
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 38 <211> LENGTH: 1825  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: Homo Sapien  
 41 <400> SEQUENCE: 1  
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 43 cctcgacctc gacccacgcg tccggggccgg agcagcacgg ccgcaggacc 100  
 44 tggagctccg gctgcgtctt cccgcagcgc taccgcctat gcgcctgccg 150  
 45 cgccggggcg cgctggggct cctgccgctt ctgctgctgc tgccgcccgc 200  
 46 gccggaggcc gccaaagaagc cgacgccctg ccaccggtgc cgggggctgg 250

ENTERED

## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/903,640

TIME: 15:56:08

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Output Set: N:\CRF3\01162002\I903640.raw

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48   ggcgggaaca cggcttggga ggaaaagacg ctgtccaagt acgagtccag 350
49   cgagattcgc ctgctggaga tcctggaggg gctgtgcgag agcagcgact 400
50   tcgaatgcaa tcagatgcta gaggcgcagg aggagcacct ggaggcctgg 450
51   tggtgcbagc tgaagagcga atatcctgac ttattcgagt ggttttgtgt 500
52   gaagacactg aaagtgtgct gctctccagg aacctacggt cccgactgtc 550
53   tcgcatgcca gggcggatcc cagaggccct gcagcgggaa tggccactgc 600
54   agcggagatg ggagcagaca gggcgacggg tcctgccggt gccacatggg 650
55   gtaccagggc ccgctgtgca ctgactgcat ggacggctac ttcagctcgc 700
56   tccggaacga gaccacagc atctgcacag cctgtgacga gtcccgcaag 750
57   acgtgctcgg gcctgaccaa cagagactgc ggcgagtgtg aagtgggctg 800
58   ggtgctggac gagggcgccct gtgtggatgt ggacgagtgt gcggccgagc 850
59   cgctccctg cagcgctgcg cagtctgtga agaacgcca cggctcctac 900
60   acgtgcgaag agtgtgactc cagctgtgtg ggctgcacag gggaaaggccc 950
61   aggaaaactgt aaagagtgtg tctctggcta cgcgaggagg cacggacagt 1000
62   gtgcagatgt ggacgagtgc tcactagcag aaaaaacctg tgtgaggaaa 1050
63   aacgaaaact gctacaatac tccagggagc tacgtctgtg tgtgtcctga 1100
64   cggcttcgaa gaaacggaag atgcctgtgt gccgccggca gaggctgaag 1150
65   ccacagaagg agaaagcccc acacagctgc cctcccgcga agacctgtaa 1200
66   tgtgccggac ttacccttta aattattcag aaggatgtcc cgtggaaaat 1250
67   gtggccctga ggatgccgtc tcctgcagtg gacagcggcg gggagaggct 1300
68   gcctgctctc taacggttga ttctcatattg tcccttaaac agctgcattt 1350
69   cttggttgtt cttaaacaga cttgtatatt ttgatacagt tctttgtaat 1400
70   aaaattgacc attgtaggta atcaggagga aaaaaaaaaa aaaaaaaaaa 1450
71   aaagggcggc cgcgactcta gagtcgacct gcagaagctt ggccgccatg 1500
72   gcccaacttg tttattgcag cttataatgg ttacaaataa agcaatagca 1550
73   tcacaaatth cacaataaaa gcattttttt cactgcattc tagttgtggt 1600
74   ttgtccaaac tcatcaatgt atcttatcat gtctggatcg ggaattaatt 1650
75   cggcgcagca ccatggcctg aaataacctc tgaaagagga acttggttag 1700
76   gtaccttctg aggcgggaaa aaccagctgt ggaatgtgtg tcagttaggg 1750
77   tgtggaaaag cccagggctc cccagcaggc agaagtatgc aagcatgcat 1800
78   ctcaattagt cagcaaccca gtttt 1825

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80 &lt;210&gt; SEQ ID NO: 2

81 &lt;211&gt; LENGTH: 353

82 &lt;212&gt; TYPE: PRT

83 &lt;213&gt; ORGANISM: Homo Sapien

84 &lt;400&gt; SEQUENCE: 2

```

85   Met Arg Leu Pro Arg Arg Ala Ala Leu Gly Leu Leu Pro Leu Leu
86       1             5             10             15
87   Leu Leu Leu Pro Pro Ala Pro Glu Ala Ala Lys Lys Pro Thr Pro
88           20             25             30
89   Cys His Arg Cys Arg Gly Leu Val Asp Lys Phe Asn Gln Gly Met
90           35             40             45
91   Val Asp Thr Ala Lys Lys Asn Phe Gly Gly Asn Thr Ala Trp
92           50             55             60
93   Glu Glu Lys Thr Leu Ser Lys Tyr Glu Ser Ser Glu Ile Arg Leu
94           65             70             75
95   Leu Glu Ile Leu Glu Gly Leu Cys Glu Ser Ser Asp Phe Glu Cys
96           80             85             90

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/903,640

DATE: 01/16/2002

TIME: 15:56:08

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Output Set: N:\CRF3\01162002\I903640.raw

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97 Asn Gln Met Leu Glu Ala Gln Glu Glu His Leu Glu Ala Trp Trp
98                               95                               100                               105
99 Leu Gln Leu Lys Ser Glu Tyr Pro Asp Leu Phe Glu Trp Phe Cys
100                               110                               115                               120
101 Val Lys Thr Leu Lys Val Cys Cys Ser Pro Gly Thr Tyr Gly Pro
102                               125                               130                               135
103 Asp Cys Leu Ala Cys Gln Gly Gly Ser Gln Arg Pro Cys Ser Gly
104                               140                               145                               150
105 Asn Gly His Cys Ser Gly Asp Gly Ser Arg Gln Gly Asp Gly Ser
106                               155                               160                               165
107 Cys Arg Cys His Met Gly Tyr Gln Gly Pro Leu Cys Thr Asp Cys
108                               170                               175                               180
109 Met Asp Gly Tyr Phe Ser Ser Leu Arg Asn Glu Thr His Ser Ile
110                               185                               190                               195
111 Cys Thr Ala Cys Asp Glu Ser Cys Lys Thr Cys Ser Gly Leu Thr
112                               200                               205                               210
113 Asn Arg Asp Cys Gly Glu Cys Glu Val Gly Trp Val Leu Asp Glu
114                               215                               220                               225
115 Gly Ala Cys Val Asp Val Asp Glu Cys Ala Ala Glu Pro Pro Pro
116                               230                               235                               240
117 Cys Ser Ala Ala Gln Phe Cys Lys Asn Ala Asn Gly Ser Tyr Thr
118                               245                               250                               255
119 Cys Glu Glu Cys Asp Ser Ser Cys Val Gly Cys Thr Gly Glu Gly
120                               260                               265                               270
121 Pro Gly Asn Cys Lys Glu Cys Ile Ser Gly Tyr Ala Arg Glu His
122                               275                               280                               285
123 Gly Gln Cys Ala Asp Val Asp Glu Cys Ser Leu Ala Glu Lys Thr
124                               290                               295                               300
125 Cys Val Arg Lys Asn Glu Asn Cys Tyr Asn Thr Pro Gly Ser Tyr
126                               305                               310                               315
127 Val Cys Val Cys Pro Asp Gly Phe Glu Glu Thr Glu Asp Ala Cys
128                               320                               325                               330
129 Val Pro Pro Ala Glu Ala Glu Ala Thr Glu Gly Glu Ser Pro Thr
130                               335                               340                               345
131 Gln Leu Pro Ser Arg Glu Asp Leu
132                               350

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134 &lt;210&gt; SEQ ID NO: 3

135 &lt;211&gt; LENGTH: 2206

136 &lt;212&gt; TYPE: DNA

137 &lt;213&gt; ORGANISM: Homo Sapien

138 &lt;400&gt; SEQUENCE: 3

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139 caggtccaac tgcacctcgg ttctatcgat tgaattcccc ggggatcctc 50
140 tagagatccc tcgacctcga cccacgcgctc cgccaggccg ggaggcgacg 100
141 cgcccagccg tctaaacggg aacagccctg gctgagggag ctgcagcgca 150
142 gcagagtatc tgacggcgcc aggttgcgta ggtgcggcac gaggagtttt 200
143 cccggcagcg aggaggtcct gagcagcatg gcccggagga gcgccttccc 250
144 tgccgcccgcg ctctggctct ggagcatcct cctgtgcctg ctggcactgc 300
145 gggcgaggcg cgggccgccc caggaggaga gcctgtacct atggatcgat 350
146 gctcaccagg caagagtact cataggattt gaagaagata tcctgattgt 400

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## RAW SEQUENCE LISTING

DATE: 01/16/2002

PATENT APPLICATION: US/09/903,640

TIME: 15:56:08

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Output Set: N:\CRF3\01162002\I903640.raw

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148   agagaatgcc agctattcct gtcaatatcc attccatgaa ttttacctgg 500
149   caagctgcag ggcagggcaga atacttctat gaattcctgt ccttgcgctc 550
150   cctggataaa ggcatcatgg cagatccaac cgtcaatgtc cctctgctgg 600
151   gaacagtgcc tcacaaggca tcagttgttc aagttggttt cccatgtctt 650
152   ggaaaacagg atggggtggc agcatttgaa gtggatgtga ttgttatgaa 700
153   ttctgaaggc aacaccattc tccaaacacc tcaaaatgct atcttcttta 750
154   aaacatgtca acaagctgag tgcccaggcg ggtgccgaaa tggaggcttt 800
155   tgtaatgaaa gacgcactcg cgagtgtcct gatgggttcc acggacctca 850
156   ctgtgagaaa gcccttttga cccacgatg tatgaatggg ggactttgtg 900
157   tgactcctgg ttctgtcatc tgcccacctg gattctatgg agtgaactgt 950
158   gacaaagcaa actgctcaac cacctgcttt aatggaggga cctgtttcta 1000
159   ccctggaaaa tgtatttgcc ctccaggact agagggagag cagtgtgaaa 1050
160   tcagcaaatg cccacaaccc tgtcgaaatg gaggtaaatg cattggtaaa 1100
161   agcaaatgta agtgttccaa aggttaccag ggagacctct gttcaaagcc 1150
162   tgtctgcgag cctggctgtg gtgcacatgg aacctgccat gaacccaaca 1200
163   aatgccaatg tcaagaaggc tggcatggaa gacactgcaa taaaaggtag 1250
164   gaagccagcc tcatacatgc cctgaggcca gcaggcgccc agctcaggca 1300
165   gcacacgcct tactttaaaa aggccgagga gcggcgggat ccacctgaat 1350
166   ccaattacat ctggtgaact ccgacatctg aaacgtttta agttacacca 1400
167   agttcatagc ctttggttaac ctttcatgtg ttgaatgttc aaataatgtt 1450
168   cattacactt aagaatactg gcctgaattt tattagcttc attataaatc 1500
169   actgagctga tatttactct tccttttaag ttttctaagt acgtctgtag 1550
170   catgatggta tagattttct tgtttcagtg ctttgggaca gattttatat 1600
171   tatgtcaatt gatcagggtt aaattttcag tgtgtagttg gcagatatatt 1650
172   tcaaaattac aatgcattta tgggtgtctg gggcagggga acatcagaaa 1700
173   ggtaaatttg ggcaaaaatg cgtaagtcac aagaatttgg atggtgcagt 1750
174   taatgttgaa gttacagcat ttcagatttt attgtcagat atttagatgt 1800
175   ttgtttacatt tttaaaaatt gctcttaatt tttaaactct caatacaata 1850
176   tattttgacc ttaccattat tccagagatt cagtattaaa aaaaaaaaaa 1900
177   ttacactgtg gtagtggcat ttaacaata taatatattc taaacacaat 1950
178   gaaataggga atataatgta tgaacttttt gcattggcct gaagcaatat 2000
179   aatatattgt aaacaaaaca cagctcttac ctaataaaca ttttatactg 2050
180   tttgtatgta taaaataaag gtgctgcttt agttttttgg aaaaaaaaaa 2100
181   aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcgggcgc gactctagag 2150
182   tcgacctgca gaagcttggc cgccatggcc caacttgttt attgcagctt 2200
183   ataatg 2206

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185 &lt;210&gt; SEQ ID NO: 4

186 &lt;211&gt; LENGTH: 379

187 &lt;212&gt; TYPE: PRT

188 &lt;213&gt; ORGANISM: Homo Sapien

189 &lt;400&gt; SEQUENCE: 4

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190   Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Ala Leu Trp Leu Trp
191       1             5             10             15
192   Ser Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro
193               20             25             30
194   Pro Gln Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala
195               35             40             45
196   Arg Val Leu Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/903,640

DATE: 01/16/2002

TIME: 15:56:08

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199		65		70		75
200	Arg Met Pro Ala Ile Pro Val Asn Ile His Ser Met Asn Phe Thr					
201		80		85		90
202	Trp Gln Ala Ala Gly Gln Ala Glu Tyr Phe Tyr Glu Phe Leu Ser					
203		95		100		105
204	Leu Arg Ser Leu Asp Lys Gly Ile Met Ala Asp Pro Thr Val Asn					
205		110		115		120
206	Val Pro Leu Leu Gly Thr Val Pro His Lys Ala Ser Val Val Gln					
207		125		130		135
208	Val Gly Phe Pro Cys Leu Gly Lys Gln Asp Gly Val Ala Ala Phe					
209		140		145		150
210	Glu Val Asp Val Ile Val Met Asn Ser Glu Gly Asn Thr Ile Leu					
211		155		160		165
212	Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr Cys Gln Gln Ala					
213		170		175		180
214	Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys Asn Glu Arg					
215		185		190		195
216	Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His Cys Glu					
217		200		205		210
218	Lys Ala Leu Cys Thr Pro Arg Cys Met Asn Gly Gly Leu Cys Val					
219		215		220		225
220	Thr Pro Gly Phe Cys Ile Cys Pro Pro Gly Phe Tyr Gly Val Asn					
221		230		235		240
222	Cys Asp Lys Ala Asn Cys Ser Thr Thr Cys Phe Asn Gly Gly Thr					
223		245		250		255
224	Cys Phe Tyr Pro Gly Lys Cys Ile Cys Pro Pro Gly Leu Glu Gly					
225		260		265		270
226	Glu Gln Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly					
227		275		280		285
228	Gly Lys Cys Ile Gly Lys Ser Lys Cys Lys Cys Ser Lys Gly Tyr					
229		290		295		300
230	Gln Gly Asp Leu Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly					
231		305		310		315
232	Ala His Gly Thr Cys His Glu Pro Asn Lys Cys Gln Cys Gln Glu					
233		320		325		330
234	Gly Trp His Gly Arg His Cys Asn Lys Arg Tyr Glu Ala Ser Leu					
235		335		340		345
236	Ile His Ala Leu Arg Pro Ala Gly Ala Gln Leu Arg Gln His Thr					
237		350		355		360
238	Pro Ser Leu Lys Lys Ala Glu Glu Arg Arg Asp Pro Pro Glu Ser					
239		365		370		375
240	Asn Tyr Ile Trp					
242	<210> SEQ ID NO: 5					
243	<211> LENGTH: 45					
244	<212> TYPE: DNA					
245	<213> ORGANISM: Artificial Sequence					
246	<220> FEATURE:					

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/903,640

DATE: 01/16/2002

TIME: 15:56:09

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Output Set: N:\CRF3\01162002\I903640.raw

L:30 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

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L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26

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L:5373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206

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